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## **TECAT to Demonstrate WISER 4000 Wireless Torque Measuring and Monitoring System in Automotive Applications at Sensors Expo & Conference 2016**

**ANN ARBOR, Mich. — June 14, 2016 —** [TECAT Performance Systems](#) today announced that it will be highlighting its new WISER 4000 wireless torque measuring and monitoring system at Sensors Expo & Conference 2016, being held June 21-23 in San Jose, California. In booth 1225 at the McEnery Convention Center, TECAT will provide live demonstrations of the system in automotive applications, including monitoring strain in flex plates; measuring torque in pulleys, pistons, and all manner of shafts; and measuring temperature and vibration to predict failure in U-joints.

Featuring shunt calibration, TECAT's latest WISER system is designed to simplify instrumentation verification for users while allowing them to check calibration of the system in the field. The WISER 4000 has been enhanced with two additional programmable analog outputs and higher-speed recording, and it is available with custom-built remote enclosures to protect the system's remote unit and battery from damage due to debris.

"For autonomous vehicles and smart cars, wireless sensors play a pivotal role in the communication of accurate drivetrain data to the cloud," said Don Keating, vice president, new business development, at TECAT Performance Systems. "We're looking forward to meeting with vehicle engineering teams at the Sensors Expo & Conference and demonstrating how our WISER 4000 system delivers a faster, more flexible, and reliable tool to meet this need."

TECAT's WISER systems are the smallest, lightest, and most power-efficient solutions available for the measurement of torque, acceleration, pressure, temperature, distance, and magnetization. The WISER 4000 comprises three subsystems. The remote unit consists of the data capture

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electronics connected to Micro-Measurements strain gages, a transceiver, and a long-life battery. The base unit plugs directly into a PC USB port and houses an antenna, transceiver, and up to four analog outputs. The WISER Data Viewer software is used for system configuration and calibration, live monitoring, and data logging. The WISER 4000 enables positive and negative shunt calibration with two independent shunt calibration legs using 100 kΩ resistors.

In addition to measuring torque, the WISER 4000 has the optional ability to measure 3-axis acceleration, barometric pressure, and ambient temperature, all within a small footprint measuring 36 mm x 23 mm x 4 mm. On-board data logging with triggering capability allows high-resolution data to be collected on the remote unit without PC or DAQ connectivity, while remote flash enables firmware upgrades without removal of the system from the unit under test.

“Besides the applications for which WISER has already been proved, we can foresee additional uses such as gyroscopes, MEMS-type sensor chips, and output drivers and input conditioning for many types of analog sensors,” added Keating. “Our customers already tell us that they can now get data directly off parts in rotating or translating motion where they previously relied on secondary measurements to infer the data.”

For over 30 years, Sensors Expo & Conference has established itself as North America’s premier event focused exclusively on sensors and sensor-integrated systems. More information on the expo is available at <http://www.sensorsexpo.com>.

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#### **About TECAT Performance Systems**

TECAT Performance Systems was founded in 2010 by Dr. Douglas Baker, CTO and inventor of its torque telemetry system. The company designs and manufactures the smallest, lightest, most power-efficient wireless sensors available. These features enable the measurement of torque, acceleration, and atmospheric data in places never before accessed. The company is headquartered in Ann Arbor, Michigan. More information on TECAT Performance Systems is available at <http://tecatperformance.com/>.